



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : C12N 15/54, 15/82, 9/10, C12Q 1/02, 1/68, 1/48	A3	(11) International Publication Number: WO 00/37656 (43) International Publication Date: 29 June 2000 (29.06.00)
(21) International Application Number: PCT/US99/30338 (22) International Filing Date: 20 December 1999 (20.12.99) (30) Priority Data: 60/113,190 21 December 1998 (21.12.98) US (71) Applicant (for all designated States except US): E.I. DU PONT DE NEMOURS AND COMPANY [US/US]; 1007 Market Street, Wilmington, DE 19898 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): FAMODU, Omolayo, O. [US/US]; 216 Barrett Run Place, Newark, DE 19702 (US). MCGONIGLE, Brian [US/US]; 1707 North Union Street, Wilmington, DE 19806 (US). ODELL, Joan, T. [US/US]; P.O. Box 826, Unionville, PA 19375 (US). FADER, Gary, M. [US/US]; 1000 Woods Lane, Landenberg, PA 19350 (US). FALCO, Saverio, Carl [US/US]; 1902 Miller Road, Arden, DE 19810 (US). (74) Agent: FEULNER, Gregory, J.; E.I. du Pont de Nemours and Company, Legal Patent Records Center, 1007 Market Street, Wilmington, DE 19898 (US).		(81) Designated States: AE, AL, AU, BA, BB, BG, BR, CA, CN, CR, CU, CZ, DM, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> (88) Date of publication of the international search report: 14 September 2000 (14.09.00)
(54) Title: FLAVONOID BIOSYNTHETIC ENZYMES (57) Abstract <p>This invention relates to an isolated nucleic acid fragment encoding a flavonoid biosynthetic enzyme. The invention also relates to the construction of a chimeric gene encoding all or a portion of the flavonoid biosynthetic enzyme, in sense or antisense orientation, wherein expression of the chimeric gene results in production of altered levels of the flavonoid biosynthetic enzyme in a transformed host cell.</p>		

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